

Claims

1. A device in a printing group of a rotary printing press, having a forme cylinder (21), a transfer cylinder (02) and a counter-pressure cylinder (01), wherein the transfer cylinder (02) and the counter-pressure cylinder (01) have cooperating support elements (06, 07), characterized in that a support element (06, 07) cooperating with the transfer cylinder (02) is not provided at the forme cylinder (21).

2. The device in accordance with claim 1, characterized in that the shaft distance (a2) between the forme cylinder (21) and the transfer cylinder (02) can be set in that the shaft distance (a2) of the forme cylinder (21) can be set in respect to the transfer cylinder (02) in particular.

3. The device in accordance with claim 2, characterized in that the shaft distance (a2) can be adjusted, even during the running printing process, by setting a contact pressure between the forme cylinder (21) and the transfer cylinder (02).

4. A device in a printing group of a rotary printing press, having a forme cylinder (21), a transfer cylinder (02) and a counter-pressure cylinder (01), wherein the forme cylinder (21) has a waterless printing forme (26 to 29), characterized in that the contact pressure between the forme

cylinder (21) and the transfer cylinder (02) can be matched to a property of the waterless printing forme (26 to 29).

5. The device in accordance with claim 4, characterized in that the property is the pressure stressing of the printing forme (26 to 29).

6. The device in accordance with claim 4, characterized in that the property is the temperature stressing of the printing forme (26 to 29).

7. The device in accordance with claim 4, characterized in that the property is the wear resistance of the printing forme (26 to 29).

8. The device in accordance with claim 4, characterized in that the contact pressure between the forme cylinder (21) and the transfer cylinder (02) can be adapted to a heat-related behavior of a printing ink used for inking the printing forme (26 to 29).

9. The device in accordance with claim 8, characterized in that the heat-related behavior of the printing ink is its flowability or its adhesion to the printing forme (26 to 29).

10. The device in accordance with one of claims 4 to 9, characterized in that the contact pressure can be set by means of a change of the shaft distance (a2) existing between the forme cylinder (21) and the transfer cylinder (02).

11. The device in accordance with claim 4, characterized in that the shaft distance (a2) can also be adjusted during the running printing process.

12. The device in accordance with claim 4, characterized in that the transfer cylinder (02) and the counter-pressure cylinder (01) have cooperating support elements (06, 07), while a support element (06, 07) cooperating with the transfer cylinder (02) is not provided at the forme cylinder (21).

13. The device in accordance with claim 3 or 11, characterized in that the adjustability of the shaft distance (a2) consists in the shaft distance (a2) having different values at different contact pressures.

14. The device in accordance with one of claims 1 or 4, characterized in that the forme cylinder (21) has at least one printing forme (26 to 29) coated with silicon.

15. The device in accordance with one of claims 1 or 4, characterized in that the forme cylinder (21) has at least one waterless printing forme (26 to 29).

16. The device in accordance with one of claims 1 or 4, characterized in that the printing forme (26 to 29) is a printing plate which can be applied to the surface area (23) of the forme cylinder (21).

17. The device in accordance with one of claims 1 or 4, characterized in that, for the adjustment of the forme cylinder (21) against the transfer cylinder (02), a rotary shaft (22) of the forme cylinder (21) is in operative contact with at least one eccentric bearing (18, 19), a lever arrangement or a linear drive mechanism.

18. The device in accordance with claim 17, characterized in that the eccentric bearing (18, 19) is an eccentric bushing (18, 19).

19. The device in accordance with one of claims 1 or 12, characterized in that the support element (07) of the transfer cylinder (02) and the support element (06) of the counter-pressure cylinder (01) are arranged so that they roll off on each other.

20. The device in accordance with one of claims 1 or 4, characterized in that the counter-pressure cylinder (01) is a transfer cylinder and forms a further printing location together with a further forme cylinder.

21. The device in accordance with one of claims 1 or 4, characterized in that the transfer cylinder (02) and the counter-pressure cylinder (01) can be moved away from each other by pivoting or traveling a displacement path.

22. The device in accordance with one of claims 1 or 4, characterized in that the printing group is a component of a four-cylinder printing group.

23. The device in accordance with one of claims 1 or 4, characterized in that the forme cylinder (21) is temperature-regulated.

24. The device in accordance with claim 23, characterized in that a temperature-regulating medium flows through at least one cooling conduit arranged in the forme cylinder (21).

25. The device in accordance with claim 24, characterized in that the at least one cooling circuit is arranged closely underneath the surface area (23) of the forme cylinder (21).